

#### **DEFENSE LOGISTICS AGENCY**

DEFENSE SUPPLY CENTER, COLUMBUS POST OFFICE BOX 3990 COLUMBUS, OH 43218-3990

IN REPLY REFER TO

DSCC-VAI (Mr. Abdouni/614-692-0565)

September 27, 2004

#### MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Recommended disposition of comments on MIL-DTL-83538/1B, /3B, /4B, /5B, /8B and /13. Connectors, Electrical, Circular, Umbilical, for MIL-STD-1760 Applications. Project numbers 5935-4644-001 through 5935-4644-006.

A copy of the recommended disposition of comments, in PDF file format, is attached and can also be viewed or downloaded from our web site at:

http://www.dscc.dla.mil/programs/milspec

Please take note of the following points:

- a. Ignore the red lines you see at the right side of some of the drawings. They are system generated and will not be part of the final draft or the published documents.
- b. Comments 4 through 7 and 10 need special attention and input.

Please review the disposition on the above-mentioned comments and submit any corrections or notes to Mr. Abdouni within 2 weeks of the date of this notice.

Point of contact on this issue is Mr. Abdo Abdouni at Tel: 614-692-0565, Fax: -6939, or e-mail: <a href="mailto:abdo.abdouni@dla.mil">abdo.abdouni@dla.mil</a>.

Sincerely,

/signed/

RICHARD L TAYLOR Chief Interconnection Devices Team

Comment on MIL-	DTL-83538/1B.	/3B. /4B.	. /5B. /8l	B & /13 b	v AF-11

Comment # 1

On all slash sheets. Air Force	Custodian should be Air Force	11 instead of Air Force 85.
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## Resolution:

Change Custodian from AF-85 to AF-11. Also, all "concluding Material" listings for all slash sheets will be in accordance with the latest information in the ASSIST database.

RECOMMENDED DISPOSITION: Accept

FINAL DISPOSITION:

# Comment on MIL-DTL-83538/1B by HiRel

Comment #2

MIL-DTL-83538/1B, Store Receptacle

- a. Sheet 2 Ø2.34/2.24 dimension on the shell keys should be the diameter of the bayonets.
- b. 4.62 MAX dimension is incorrectly located. Dimension should be from face of the shell to the socket contact spring.

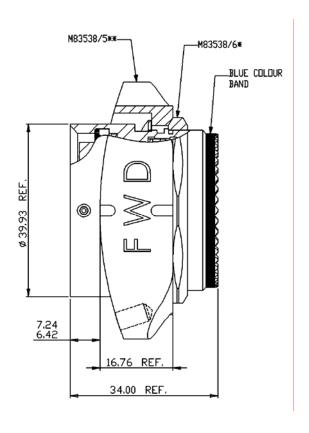
## **Resolution:**

- a. Should to sheet 3, figure 2. Non-Accept. It is the diameter of the bayonet pins. Not clear what is intended here.
- b. Accept-Modify. See comment 3b.

RECOMMENDED DISPOSITION: Accept-Modify

FINAL DISPOSITION:

Replace figure 1, page 1 side view with the following figure:

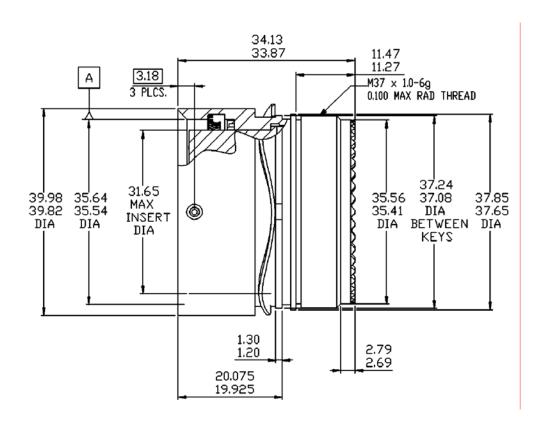


		1	
mm	Inches	mm	Inches
6.42	0.253	34.00	1.339
7.24	0.285	39.93	1.572
16.76	0.660		

RECOMMENDED DISPOSITION: Accept

FINAL DISPOSITION:

Replace figure 2, page 2 with the following figure:

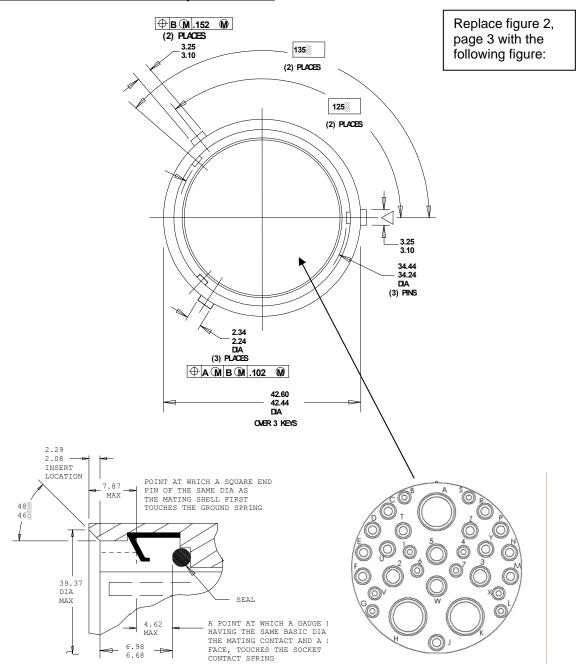


RECOMMENDED DISPOSITION: Accept

FINAL DISPOSITION:



# Comment # 3b

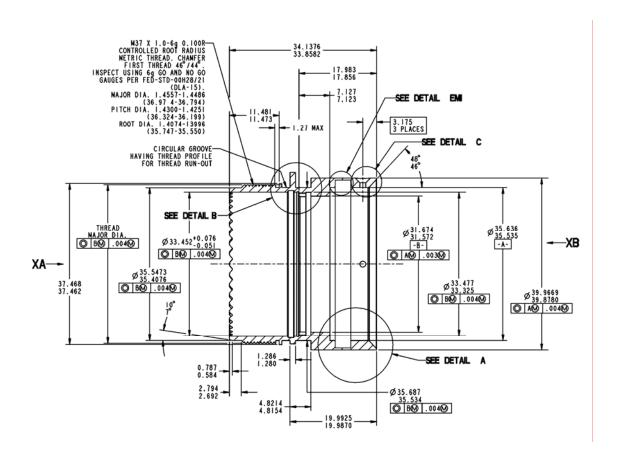


For the 7.87 dimension, rewrite the note as follows: POINT AT WHICH THE MATING SHELL FIRST TOUCHES THE GROUNDING SPRING.

Also, for the 4.62 dimension: It should be from the front of the shell, see MIL-DTL-83538/1A for reference. Also, the inside dimension line of the 4.62 dimension should be moved so that it does not coincide with the 7.87 dimension line.

RECOMMENDED DISPOSITION: Accept-Modify

FINAL DISPOSITION:

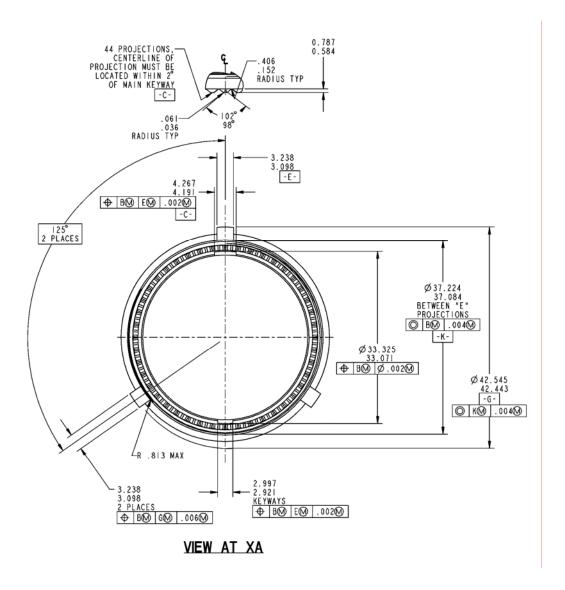


Resolution: Where is the wavy spring washer?

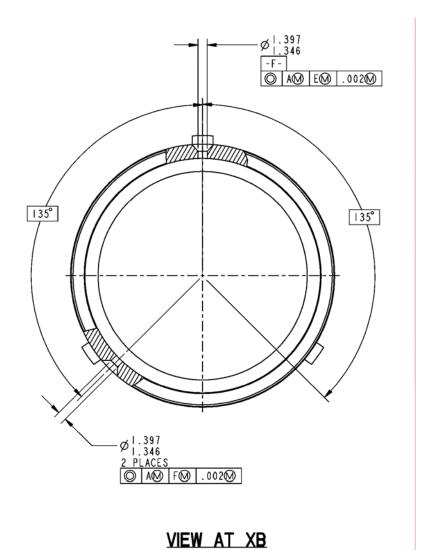
Also, the drawing on comment 3a is a little clearer, but there are slight differences in dimensions. Hold for discussion and input. This also applies to comments 4a, 4b, 4c and 4d.

RECOMMENDED DISPOSITION: Discuss

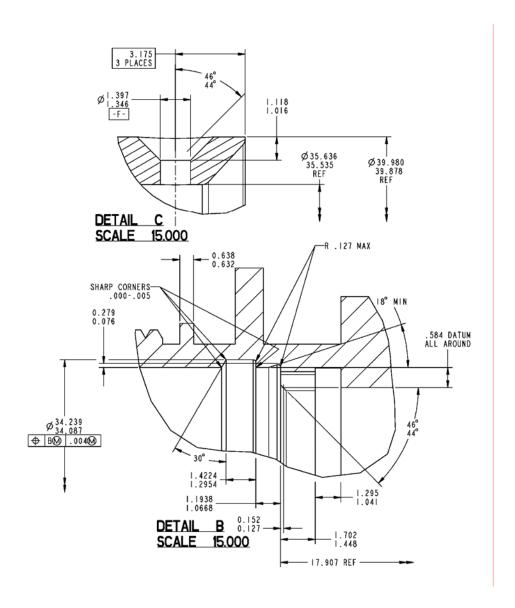
FINAL DISPOSITION:



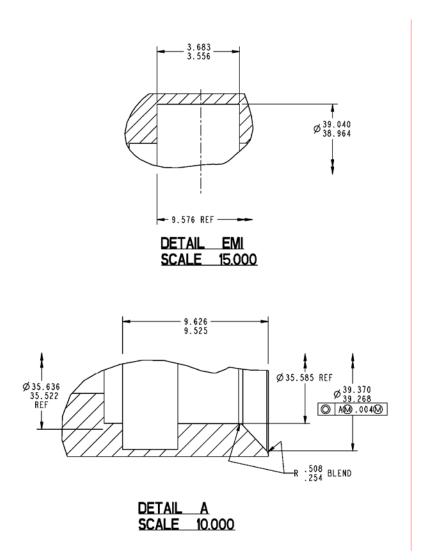
FINAL DISPOSITION:



FINAL DISPOSITION:



FINAL DISPOSITION:

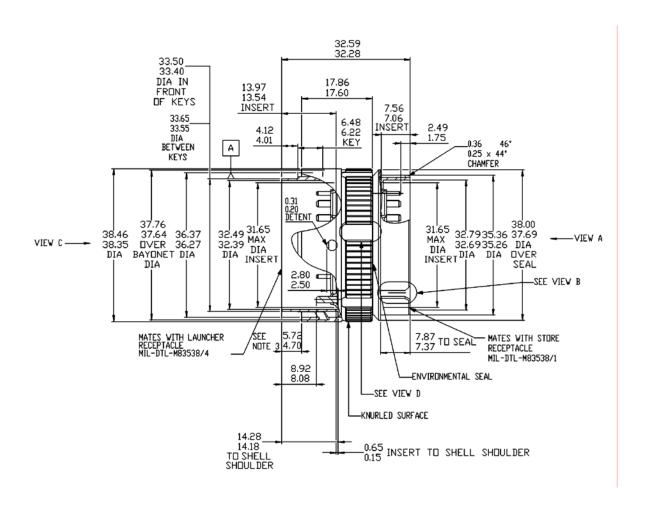


FINAL DISPOSITION:

- 2) MIL-DTL-83538/3B, Buffer Plug
- a. Sheet 1 Location of interfacial seal on launcher receptacle side of the buffer plug is double dimensioned. One locating dimension of 13.97/13.54 is from the face of the shell to the interfacial seal. The other locating dimensions are 14.28/14.18 from the face of the shell to shoulder and then 0.65/0.15 from the shell shoulder to the interfacial seal.
- b. The 5.72/4.70 dimension from the face of the shell to the coupling nut applies when the coupling nut is pushed towards the rear (note 3). Does note 3 also apply to the 2.80/2.50 dimension from the shell shoulder to the 0.31/0.20 detent?
- c. Sheet 2 How deep are the six (6) 4.05/3.95 wide slots? The coupling nut already has a thin wall due to the specifications constraints and these slots would further weaken the coupling nut. In addition, it has already been proven that due to the confines of the launcher rail, the buffer can be installed using only finger and thumb operation. The forces required to couple the buffer plug to the launcher receptacle cannot be achieved using a finger and thumb. Therefore, are these slots necessary?
  - See Mil-DTL-83538/3A. It is correct there, drafting lines have shifted.
    We will correct in the final draft. Also, see comment #6. Deutsch LTD is requested to send in a clearer drawing.
  - b. Yes
  - b. See comment #6b, view d drawing. Still the depth of the slots on /3 coupling ring is missing. Manufacturers are requested to submit the missing data. Discussion item.

RECOMMENDED DISPOSITION:	Accept-Modify
FINAL DISPOSITION:	

Replace figure 1, page 1 with the following figure:

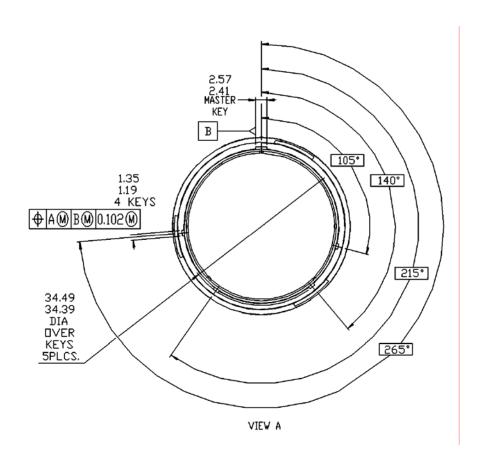


Although a more legible, clearer drawing would be appreciated, one that would fit nicely in a space of 6" X 9" on a page.

RECOMMENDED DISPOSITION: Accept

FINAL DISPOSITION:

Replace figure 1, page 3 with the following figure:



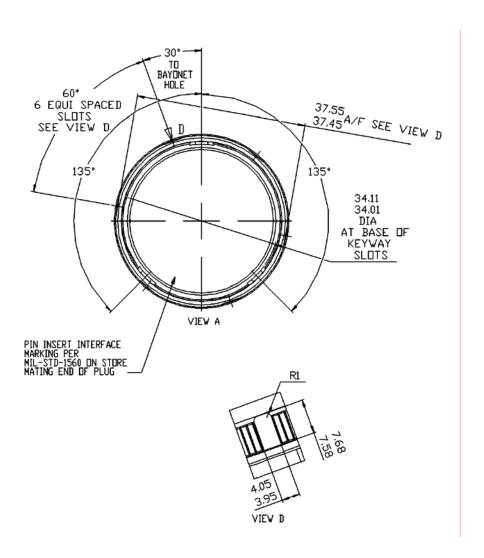
Mislabeled, shouldn't this be view C?

Discussion item.

RECOMMENDED DISPOSITION: Accept/Modify

FINAL DISPOSITION:

Replace figure 1, page 2 with the following figure:



RECOMMENDED DISPOSITION: Accept

FINAL DISPOSITION:

- 3) MIL-DTL-83538/4B, Launcher Receptacle
- Sheet 3 Dimension 11.84 max is incorrectly located. The dimension should be from the face of the shell to the ground spring per note 3.

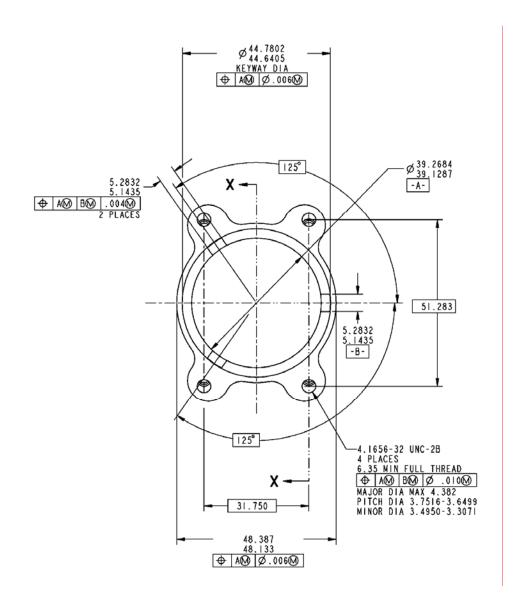
Accept-Modify: See Mil-DTL-83538/4A for correct location.

Also, rewrite note 3 as follows: POINT AT WHICH THE MATING SHELL FIRST TOUCHES THE GROUNDING SPRING.

RECOMMENDED DISPOSITION: Accept-Modify

FINAL DISPOSITION:

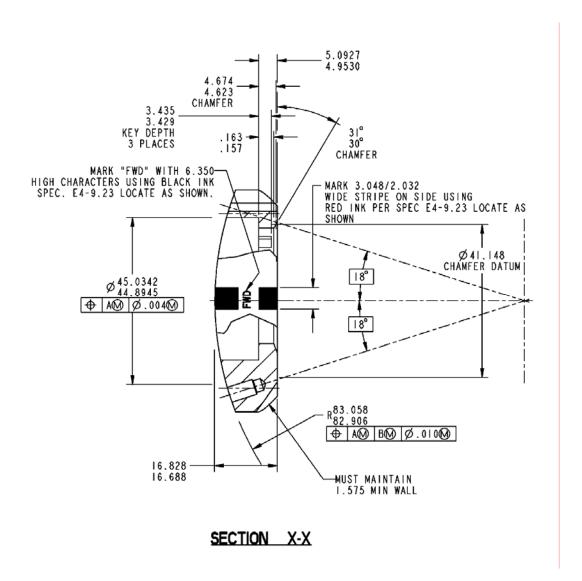
Replace figure 1, page 1 with the following figure:



RECOMMENDED DISPOSITION: Accept-Modify

FINAL DISPOSITION:

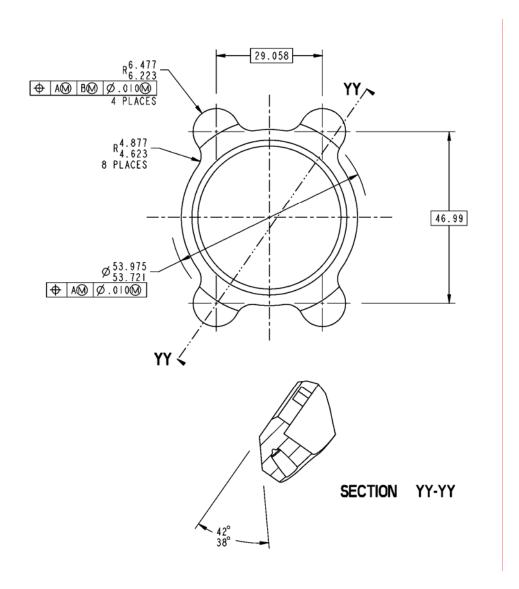
Replace figure 1, page 2 with the following figure:



RECOMMENDED DISPOSITION: Accept-Modify

FINAL DISPOSITION:

Add as a new drawing to /5:



RECOMMENDED DISPOSITION: Accept-Modify

FINAL DISPOSITION:

4) MIL-DTL-83538/8B, Protective Cover

Sheet 1 - What component in the protective cover will insure that the coupling nut detents will apply a load on the launcher receptacle bayonets when the protective cover is fully mated to the launcher receptacle?

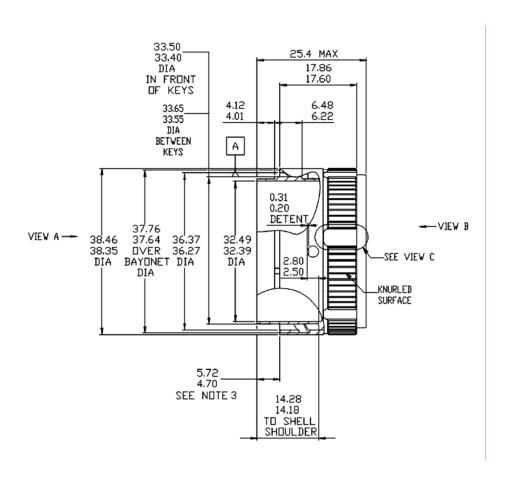
Resolution: This is a general concern question. Hopefully, the design of each individual manufacturer will assure that this cap will function properly, as intended.

Also, any further input that would help in alleviating this concern would be appreciated.

**RECOMMENDED DISPOSITION:** 

FINAL DISPOSITION:

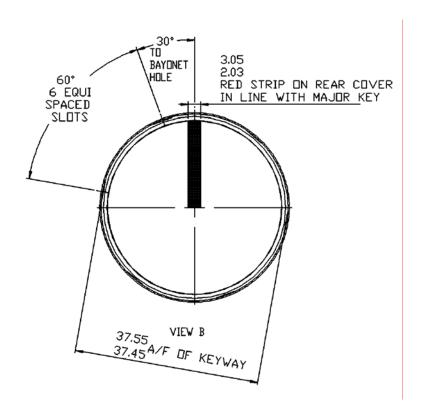
Replace figure 1, page 1 with the following figure:



RECOMMENDED DISPOSITION: Accept

FINAL DISPOSITION:

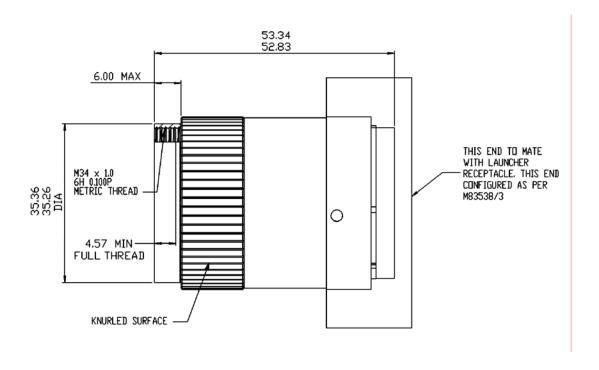
Replace figure 1, page 2, view B with the following figure:



RECOMMENDED DISPOSITION: Accept

FINAL DISPOSITION:

Replace figure 1, page 1 with the following figure:



RECOMMENDED DISPOSITION: Accept

FINAL DISPOSITION: